# ASSEMBLY, USE AND CARE MANUAL

463231603

THIS GRILL IS FOR
OUTDOOR USE ONLY

DESIGN CERTIFIED ®

COMMERCIAL SERIES®

**CAUTION**:
Read and follow all safety statements, assembly instructions, and use and care directions before attempting to assemble and cook.

**INSTALLER/ ASSEMBLER**:
Leave these instructions with consumer.

**CONSUMER**:
Keep this manual for future reference.

## ⚠ WARNING

Failure to follow all manufacturer's instructions could result in serious personal injury and/or property damage.

## ⚠ CAUTION

Some parts may contain sharp edges - especially as noted in the manual! Wear protective gloves if necessary.

If you have any questions or need assistance during assembly, please call
1-800-241-7548 U.S
1-800-387-6057 CAN

Visit us on the web at:
**www.charbroil.com**

Char-Broil®
KEEPERS OF THE FLAME

463231603 / P80112062A (04-14-03)

## ⚠ WARNING

**FOR YOUR SAFETY**

1. **Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.**
2. **An LP Tank not connected for use shall not be stored in the vicinity of this or any other appliance.**

**FOR YOUR SAFETY**

**If you smell gas:**

1. **Shut off gas to the appliance.**
2. **Extinguish any open flame.**
3. **Open lid.**
4. **If odor continues, immediately call your gas supplier or your fire department.**

### Call Grill Service Center For Help And Parts

- If you need help or warranty parts call ☎1-800-241-7548 U.S. or 1-800-387-6057 CAN, or send a FAX to 1-706-576-6355. Business hours: Open 24 hours - Seven days a week.
- To order non-warranty replacement parts or accessories *(grill cover, cleaners, paint)* call 1-800-993-2677 or send a FAX to 1-706-565-2121.

### Important: Fill out Warranty Information below

**Warranty Information**

Model Number _____

Lot Number *(on carton label)* _____

Serial Number _____

Date Purchased _____

## ⚠ CAUTION

- For residential use only. Do not use for commercial cooking.

### Installation Safety Precautions

- This grill is designed for natural gas use at 7 inch water column supply pressure. Verify supply pressure with your local gas company. Not for use with LP gas.
- Grill installation must conform with local codes, or in their absence, with National Fuel Gas Code, NFPA 54 / ANSI Z223.1. Handling and storage of LP cylinders must conform to LP Gas Code NFPA/ANSI 58. Grill is not for use in or on recreational vehicles and/or boats.
- All electrical accessories (such as rotisserie) must be electrically grounded in accordance with local codes, or National Electrical Code, ANSI / NFPA 70. Keep any electrical cords and/or fuel supply hoses away from any hot surfaces.
- This grill is safety certified for use in the United States only. Do not modify for use in any other location. Modification will result in a safety hazard.

### Safety Symbols

- The symbols and boxes shown below explain what each heading means. Read and follow all of the messages found throughout the manual.

## ⚠ DANGER

- DANGER: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

## ⚠ WARNING

- WARNING: Be alert to the possibility of serious bodily injury if the instructions are not followed. Be sure to read and carefully follow all of the messages.

## ⚠ CAUTION

- CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

# Table of Contents


For Your Safety ..... 2
Call Grill Service Center For Help And Parts ..... 2
Installation Safety Precautions ..... 2
Safety Symbols ..... 2
Table of Contents ..... 3
Warranty ..... 3
Before Beginning Assembly ..... 4
Parts List ..... 4
Exploded View ..... 5
Assembly ..... 6-9
Use and Care ..... 9-14
Storing Your Grill ..... 13
Indirect Cooking ..... 14
Food Safety ..... 14
Troubleshooting ..... 15


# Warranty

Char-Broil warrants to the original consumer-purchaser that this product shall be free from defects in workmanship and materials under normal and reasonable use and correct assembly (if assembled by consumer-purchaser), from date of purchase.

Stainless steel and die cast parts - 99 years
Electronic ignition and burners - 10 years
Remaining parts - 2 years

Char-Broil will, at its option, refinish or replace any product or part found to be defective during the warranty period. Char-Broil will require you to return the part(s) claimed to be defective, for its inspection, freight or postage prepaid.

If you wish to obtain performance of any obligation under this limited warranty, you should write to:

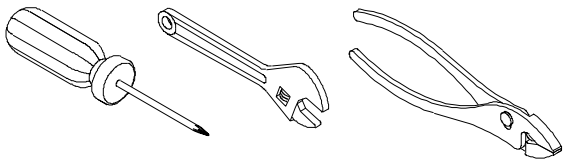
CHAR-BROIL
Consumer Warranty / P.O. Box 1240
Columbus, GA 31902-1240

Char-Broil may require reasonable proof of purchase and we suggest you keep your receipt. In the state of California only, if refinishing or replacement of the product is not commercially practicable, the retailer selling this product or Char-Broil will refund the purchase price paid for the product, less the amount directly attributable to use by the original consumer-purchaser prior to discovery of the nonconformity. In addition, in the state of California only, you may take the product to the retail establishment from which it was purchased or to any retail establishment selling this product in order to obtain performance under this warranty.

This warranty does not include the cost on any inconvenience or property damage due to failure of the product and does not cover damage due to misuse, abuse, accident, damage arising out of transportation of the product, or damage incurred through commercial use of the product. This express warranty is the sole warranty given by the manufacturer and is in lieu of all other warranties, express or implied, including implied warranty of merchantability or fitness for a particular purpose. Neither Char-Broil dealers nor the retail establishment selling this product has any authority to make any warranties or to promise remedies in addition to or inconsistent with those stated above. Char-Broil's maximum liability, in any event, shall not exceed the purchase price of the product paid by the original consumer-purchaser. Some states do not allow the exclusion or limitation of incidental or consequential damages. So the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and may also have other rights which vary from state to state.

## Before Beginning Assembly

- Necessary tools for assembly of your grill include: Phillips® screwdriver, pliers and adjustable wrench.



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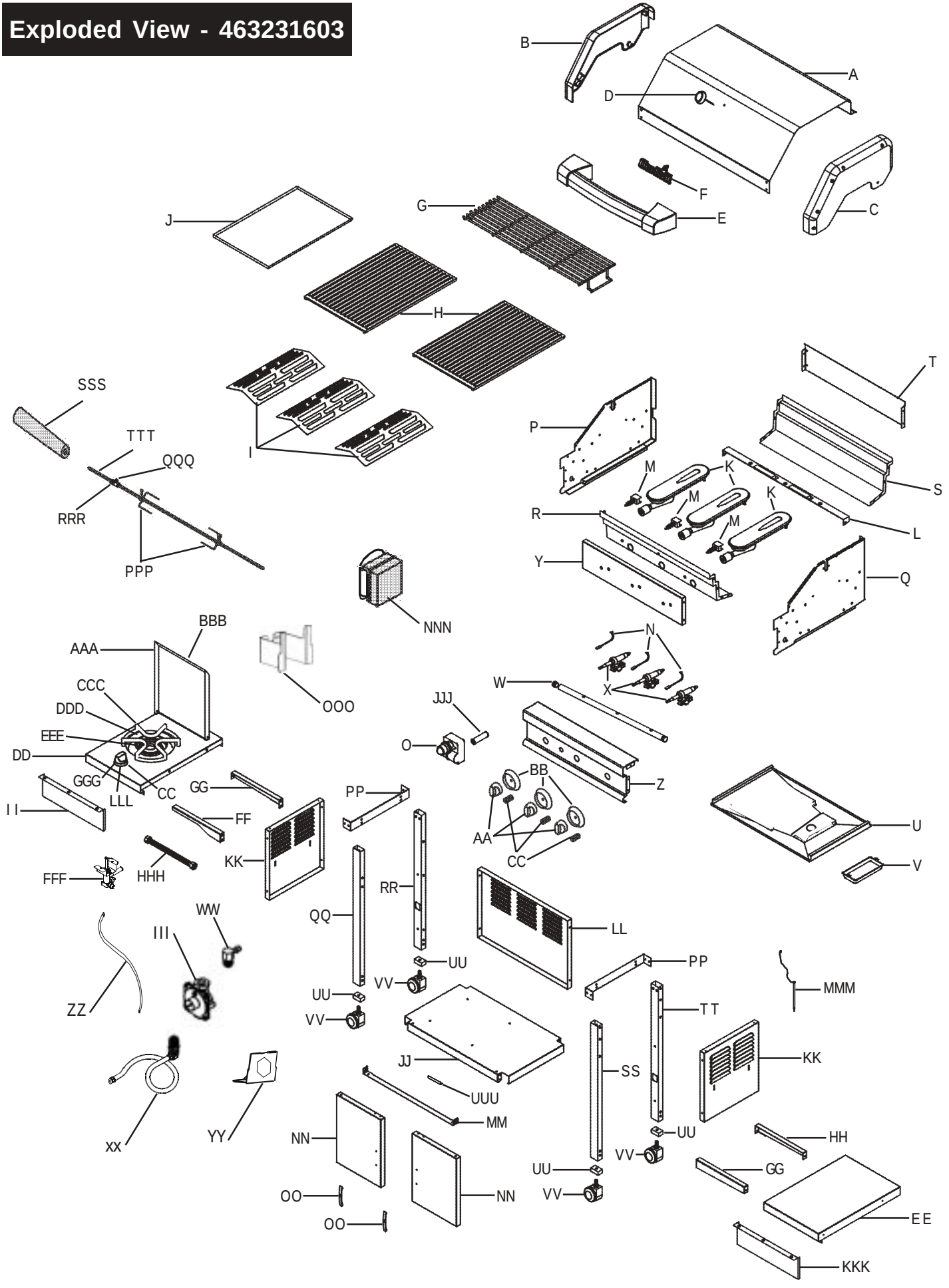
Protected under one or more of the following U.S. Patents: 4,598,692; 4,624,240; 4,747,391; 4,747,391; 4,817,583; 4,924,846; 4,989,579; 5,003,960; 5,076,256; 5,076,257; 5,090,398; 5,109,834; 5,224,676; 5,277,106; 5,421,319; 5,441,226; 5,452,707; 5,458,309; 5,566,606; 5,566,606; 5,579,755; 5,582,094; 5,613,486; 5,649,475; 5,706,797; 5,711,663; 5,765,543; 5,931,149; 5,996,573; 6,095,132; 6,135,104; 6,279,566; D282,619; D339,714; D341,292; D343,337; D358,059; D361,466; D364,535; D372,637; D373,701; D377,735; D383,035; D397,910; D405,643; D405,643; D406,005; D406,009; D413,043; D413,229; D413,229; D414,982; D415,388; D416,164; D416,441; D416,441; D417,587; D422,516; D423,274; D423,876; D428,303; D435,396; D436,004; D438,059; D438,060; D438,427; D439,110; D442,505; D443,179; D443,354; D447,384; D447,385; D447,909; D448,610; D448,614; D448,615; D448,616; D448,975; and D449,492. Other Patents Pending.

## Parts List - 463231603

| Key | Qty | Description | Part # |
|---|---|---|---|
| A | 1 | Lid Plate | P00118036A |
| B | 1 | Lid Side Panel, Left | P00105037K |
| C | 1 | Lid Side Panel, Right | P00106037K |
| D | 1 | Heat Indicator | P00601181A |
| E | 1 | Plastic Lid Handle | P00202012A |
| F | 1 | Logo Plate | P00403003H |
| G | 1 | Warming Rack | P01505007E |
| H | 2 | Cooking Grid | P01615003E |
| I | 3 | Flame Tamer | P01705005E |
| J | 1 | Griddle | P05702002E |
| K | 3 | Burner | P02001032E |
| L | 1 | Burner Support Bracket | P02203052B |
| M | 3 | Gas Collector Box with Electrode | P02609002B |
| N | 1 | Electric Wire set | P02615062A |
| O | 1 | Electric Ignitor (4 port) | P02502024C |
| P | 1 | Bowl Side Panel, Left | P00720011A |
| Q | 1 | Bowl Side Panel, Right | P00721011A |
| R | 1 | Bowl Front Panel | P00724014A |
| S | 1 | Bowl Rear Panel | P00725014A |
| T | 1 | Rear Wind Shield | P00728051A |
| U | 1 | Grease Draining Tray | P02705084A |
| V | 1 | Grease Receptacle | P02701015B |
| W | 1 | Gas Manifold | P05003062A |
| X | 3 | Gas Valve for Main Burner | P03222053B |
| Y | 1 | Heat Shield for Control Panel | P03007032B |
| Z | 1 | Control Panel | P02907381F |
| AA | 3 | Control Knob | P03411111G |
| BB | 3 | Control Knob Seat | P03415041J |
| CC | 4 | Spring | P05504017E |
| DD | 1 | Sideburner Frame (Left) | P01102013D |
| EE | 1 | Side Shelf, Right | P01103012D |
| FF | 1 | Bracket for Side Shelf - Left Front | P01204004C |
| GG | 2 | Bracket for Side Shelf - Left Rear, Right Front | P01206003C |
| HH | 1 | Bracket for Side Shelf - Right Rear | P01207002C |
| II | 2 | Front Panel, Side Shelf, Left | P07503001B |
| JJ | 1 | Cart Bottom Shelf | P01003037D |
| KK | 2 | Cart Side Panel | P07604002B |
| LL | 1 | Cart Rear Panel | P07702002B |
| MM | 1 | Door Bracket | P03301001D |
| NN | 2 | Door Front Plate | P04301002A |
| OO | 2 | Door Handle | P00214006A |
| PP | 2 | Bowl Support Bracket | P01306002D |
| QQ | 1 | Left Side Cart Leg, Front | P00910005C |
| RR | 1 | Left Side Cart Leg, Rear | P00911005C |
| SS | 1 | Right Side Cart Leg, Front | P00912005C |
| TT | 1 | Right Side Cart Leg, Rear | P00913005C |
| UU | 4 | Caster Seat | P04507003A |
| VV | 4 | 3" Caster | P05106003D |
| WW | 1 | Brass Fitting (Manifold and Regulator) | P03901004A |
| XX | 1 | Quick Discounect 12ft Hose Assembly | P03703001A |
| YY | 1 | NG Regulator Bracket | P03311029D |
| ZZ | 1 | NG Regulator Rubber Hose | P03705037A |
| AAA | 1 | Sideburner Lid | P0011508AA |
| BBB | 1 | Lid Knob for Sideburner | P00201008A |
| CCC | 1 | Pot Support | P00814002D |
| DDD | 1 | Electrode | P02614007C |
| EEE | 1 | Sideburner | P02020003D |
| FFF | 1 | Gas Valve for Sideburner | P03218102G |
| GGG | 1 | Control Knob | P03401031F |
| HHH | 1 | Connection Tube | P03702002A |
| III | 1 | "4" WC NG Regulator with Adaptors | P03614002B |
| JJJ | 1 | AA Battery | P05301001A |
| KKK | 1 | Front Panel, Side Shelf, Right | P07502001B |
| LLL | 1 | Sideburner Control Knob Seat | P03408051J |
| MMM | 1 | Match Lighting Stick with Chain | P05507031E |
| NNN | 1 | Motor Assembly | P07101010A |
| OOO | 1 | Motor Bracket | P07103011C |
| PPP | 2 | Fork | P05508112F |
| QQQ | 1 | Collar | P05508113F |
| RRR | 1 | Bushing | P05508114F |
| SSS | 1 | Handle | P05508115E |
| TTT | 1 | Spit | P05508111F |
| UUU | 1 | Door Stop | P05510009E |
| | 1 | Caster Wrench | P05515002C |
| | 1 | Grate Lifter | P05515014E |
| | 1 | Hardware Pack | P06004042A |
| | | Owner's Manual | P80112062A |

# Exploded View - 463231603



## Assembly - 463231603

• Unpack and remove all protective packaging.

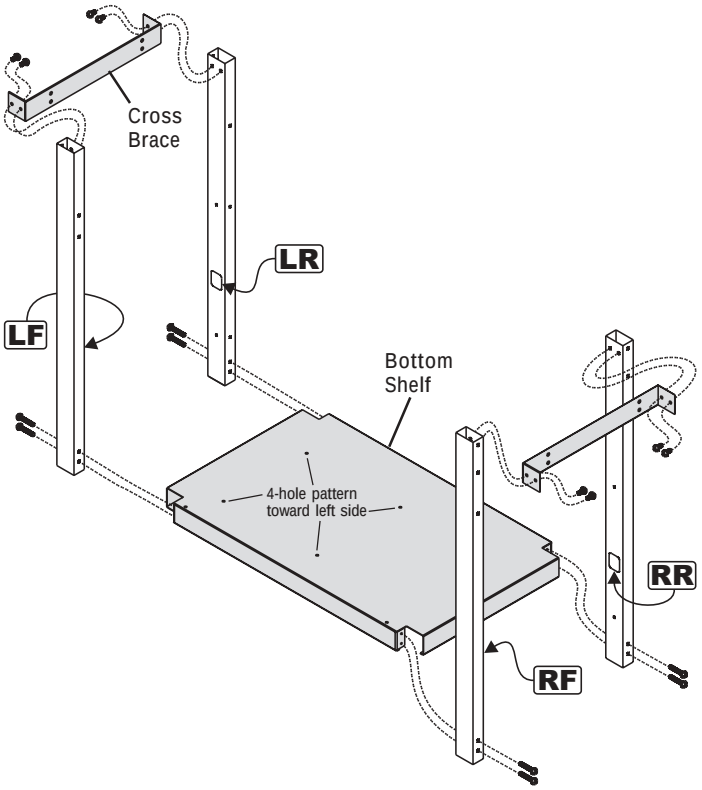
1. Position bottom shelf with the 4-hole pattern to the left side. See Fig. 1.

VERY IMPORTANT: The labels on the cart legs indicate their assembly position to the bottom shelf. **LF**=Left Front, **LR**=Left Rear, **RF**=Right Front, and **RR**=Right Rear. Labels should face inward toward each other when correctly assembled. Remaining components cannot be assembled if leg positions are incorrect.

2. Install the four cart legs to the indicated corners of the bottom shelf using 8 of the 1/4x2-1/2" Phillips-head screws provided. Do not fully tighten screws.

3. Install cross braces, facing inward, to cart legs on both sides using 8 of the 1/4x1/2" Phillips-head screws. Fully tighten. See Fig. 1.

FIGURE 1

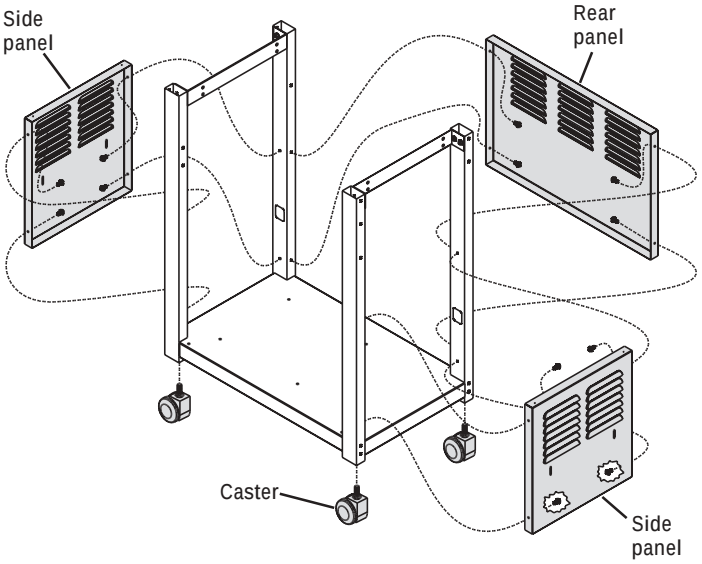



4. Screw the 4 casters into the caster seats in the bottom of each cart leg. Turn the threaded caster stem by hand, clockwise until it stops. Fully tighten with the wrench provided. See Fig. 2.

5. Install the two side panels and one rear panel to the cart by using 4 of the 3/16x3/8" Phillips-head screws on each panel. Leave rear panel screws loose. See Fig. 2.

**CAUTION**
SHARP EDGES! Wear gloves if necessary.

FIGURE 2




8. Attach the door bracket to the lower holes in the front legs with the end tabs pointing upward and the flange to the rear, pointing downward. Use 2 of the 1/4x1/2" Phillips-head screws. Do not fully tighten. See Fig. 4.

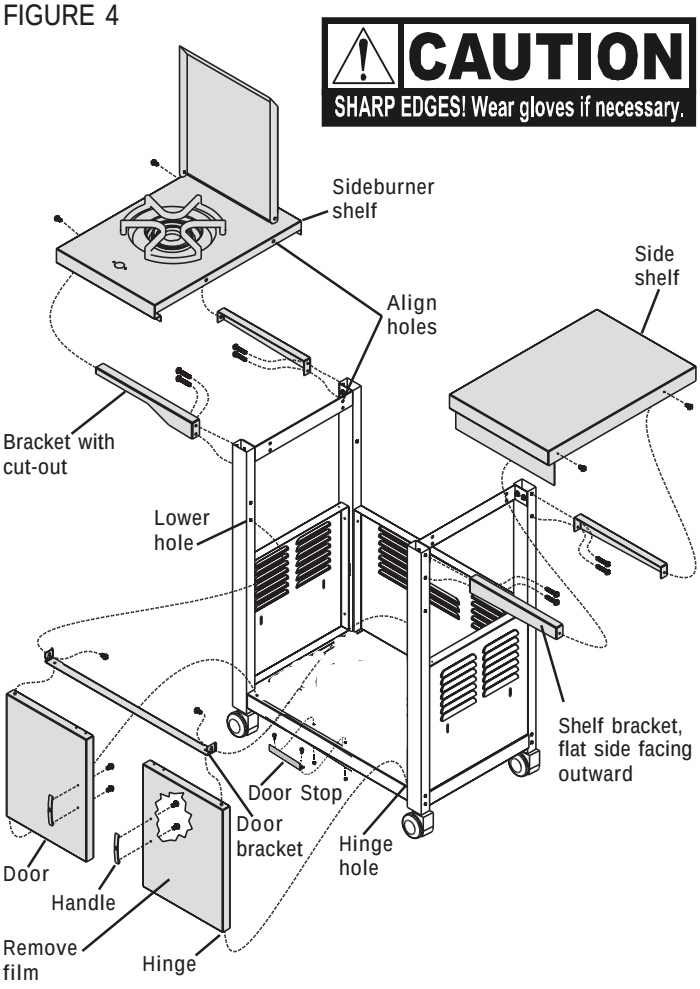
9. Place doors into the hinge holes of the bottom shelf and door bracket. Push door bracket down until doors are secure and can open and close freely. Do not fully tighten door bracket screws. See Fig. 4.

10. Remove protective film from doors. Install door handles to doors using 4 of the 3/16x3/8" Phillips-head screws. See Fig. 4.

11. Attach the 4 side shelf brackets to the tops of the cart legs using 8 of the 1/4x1/2" Phillips-head screws. IMPORTANT: Bracket with cut-out installs on front left leg. Be sure the flat side of each bracket faces outward. Fully tighten. See Fig. 4.

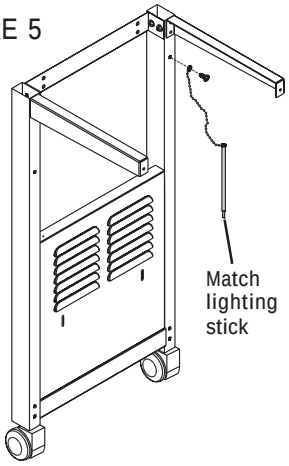
12. Place the sideburner shelf over the left brackets and cross brace. Be sure ignitor wire is hanging loose. Be sure the inside shelf holes align with cross brace holes. Secure shelf firmly to the ends of the brackets using 2 of the 1/4x1/2" Phillips-head screws. Repeat this procedure for the side shelf on the right side of the cart. See Fig. 4.

FIGURE 4




Attach the door stop to the bottom shelf, with the flange facing the front, using 2 of the 3/16x3/8" Phillips-head screws. Fully tighten. See Fig. 4.

FIGURE 5



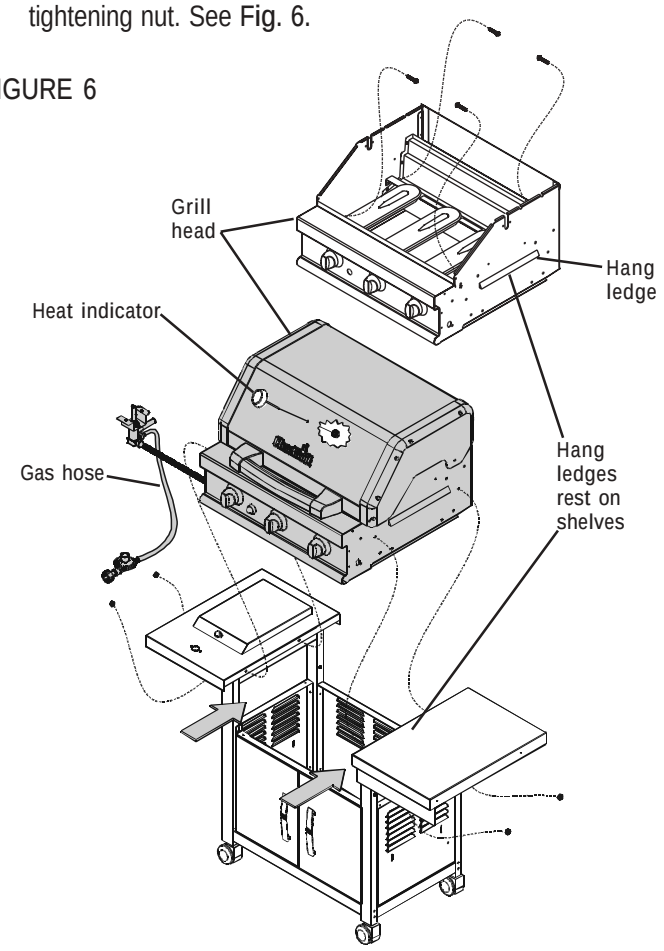

13. Attach match lighting stick and chain to the right rear leg, below shelf bracket, using one M4x10mm, self-tapping, Phillips-head screw. See Fig. 5.

To reduce the weight of the grill head, open the grill lid and remove the packed components. This step requires 2 people to lift and position the grill head onto the cart.

14. HINT: Slide grill head into cart from the front. Use care to avoid scratching tops of side shelves. Align the 2 holes beneath the hang ledge on each side of the grill head with the 2 holes in the side shelf and cross brace on the cart. Raise the grill lid and insert 4 of the 1/4x3/4" Phillips-head screws. Beneath the side shelves, add 1/4" nuts. Do not fully tighten. See Fig. 6.

15. Attach heat indicator to grill lid using nut provided. Make sure graphics on heat indicator are properly oriented before tightening nut. See Fig. 6.

FIGURE 6



16. Firmly attach ignitor wire from sideburner to the ignitor wire from the grill head. See Fig. 7a. Beneath left shelf, insert sideburner valve into sideburner tube. See Fig. 7 for proper engagement. Attach sideburner valve to shelf using 2 of the M4x10 Phillips-head screws and washers. Place knob seat, spring, and sideburner knob over valve stem.

FIGURE 7

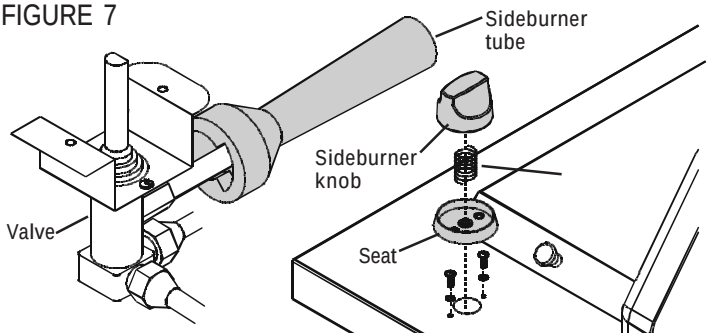
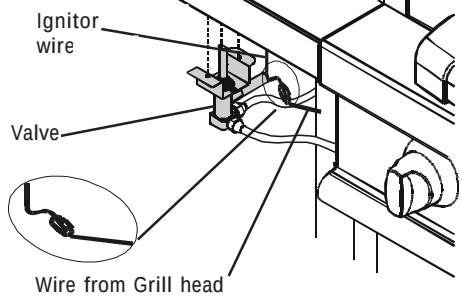



FIGURE 7a

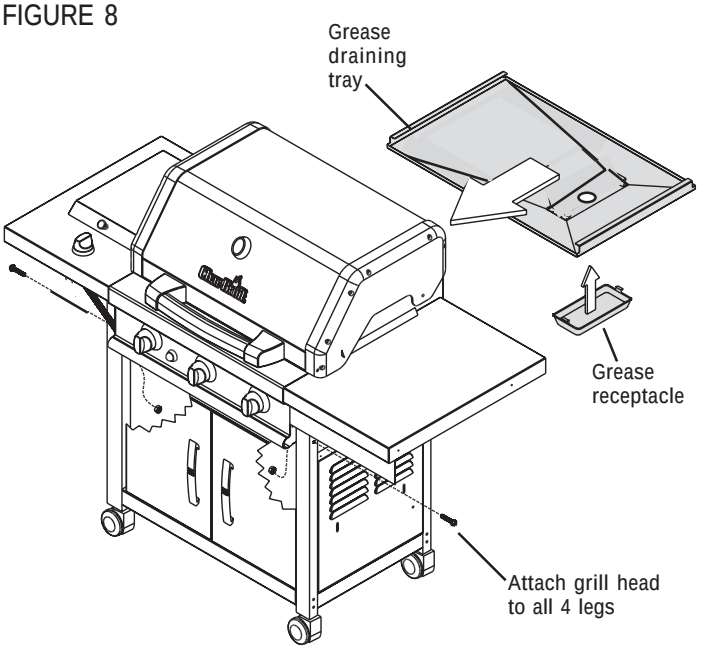



17. Secure grill head to all cart legs using 4 of the 1/4x2-1/2" Phillips-head screws and 1/4" nuts. See Fig. 8.

18. Fully tighten all leg screws, rear panel screws, door bracket screws, and grill head screws.

19. From the back of the cart, slide the grease draining tray into the grill head. Place the grease receptacle into the notches on the bottom of the tray. See Fig. 8.

FIGURE 8

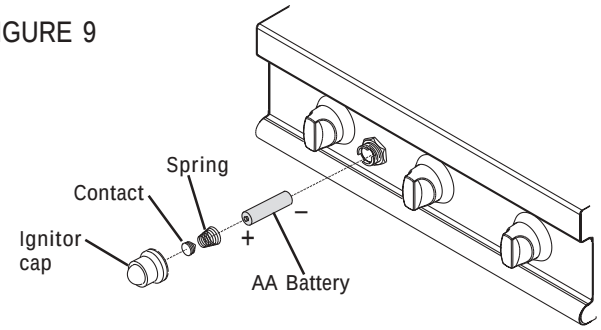



20. Unscrew the ignitor cap located on the control panel and remove the contact and spring from the ignitor slot. See Fig. 9.

21. Place the supplied AA battery into the ignitor slot with the positive pole facing toward you.

22. Place the spring with contact over the battery. Screw the ignitor cap back onto the control panel.

FIGURE 9




23. Attach panel to front of sideburner shelf by placing top lip of panel ABOVE bottom lip of shelf. Secure using three 3/16"x3/8" Phillips-head screws and 3/16" nuts. Fully Tighten. See Fig. 10.

FIGURE 10

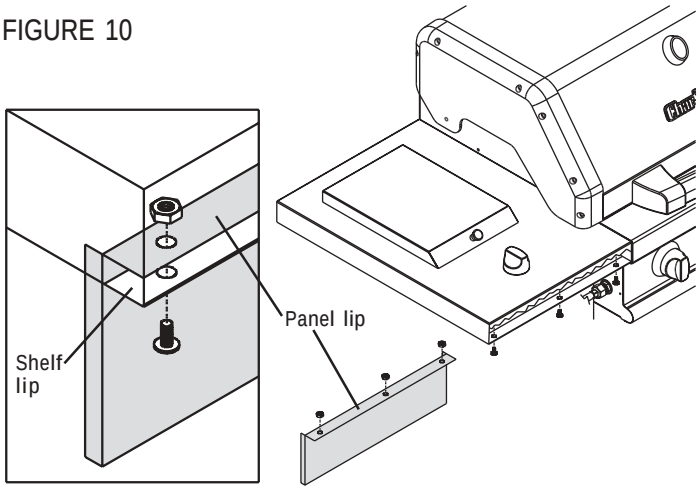
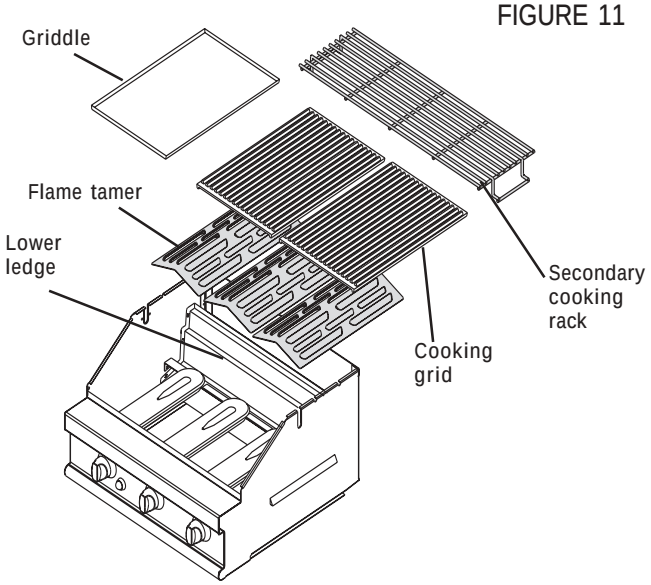



FIGURE 11



24. Place the 3 flame tamers on the lower ledge above burners. See Fig. 11. They should meet in the center.

25. Place the cooking grids or griddle on the ledge above the flame tamers.

26. Place the secondary cooking rack into the slots on the upper left and upper right of the grill bowl panels.

27. Attach rotisserie motor bracket to bowl side panel using screws, washers, and nuts provided, then slide motor onto bracket. See Fig. 12.

28. Twist handle onto threaded end of spit rod, then add bushing, collar, and forks to spit. Insert spit into motor and rest collar in groove of opposite side.

FIGURE 12

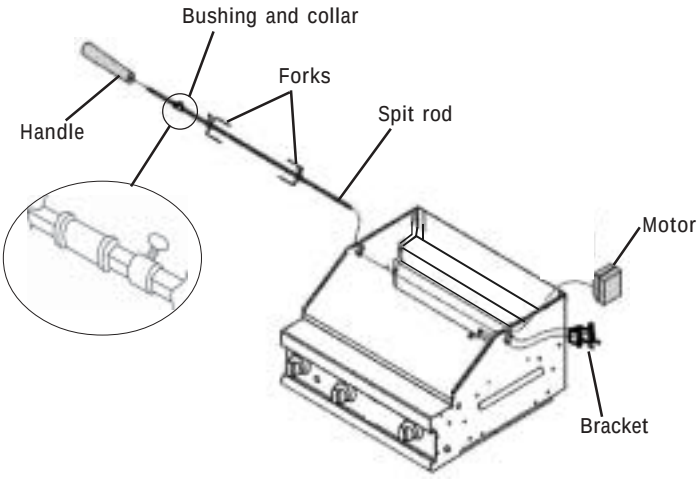
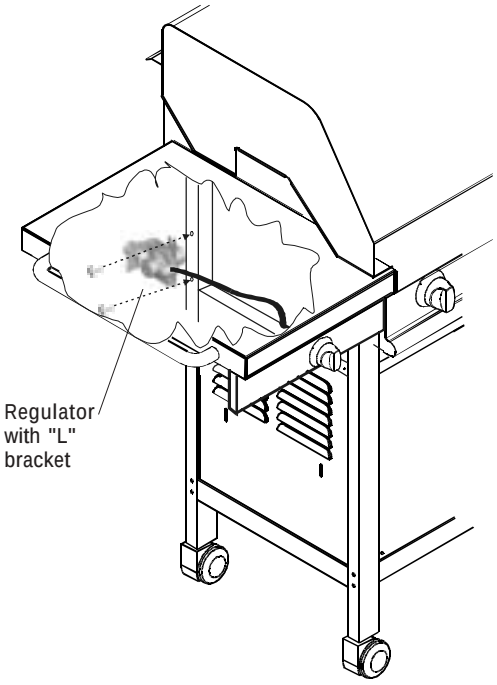


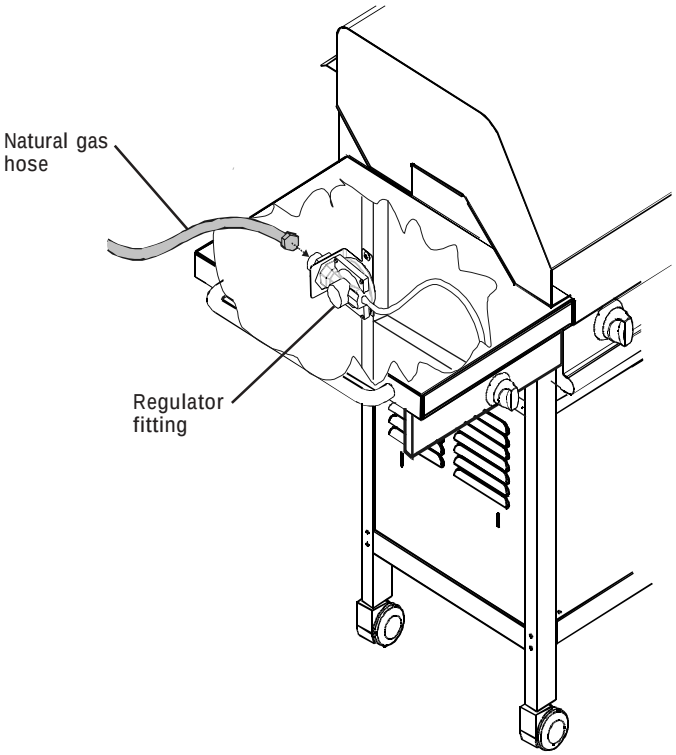

FIGURE 13




29. Assemble the regulator mounted on the "L" bracket onto the Left rear leg with 3/16" X 1/2" Phillip's head screw. See Fig. 13.

30. Thread the natural gas quick connect hose onto the regulator fitting and wrench-tighten the connection. See Fig. 14. Please read *"Connecting Your Grill to the Natural Gas Source"* and *"Leak Testing"*, in the Use and Care section, before using your grill.

FIGURE 14




## ⚠ WARNING

- WARNING: When the rotisserie motor is in use, the warming rack and side burner should not be used.

### Before Your First Cookout

- Perform the leak test as indicated in the use and care section.
- Wash the cooking grids, griddle, cooking rack, and all stainless steel surfaces with warm, soapy water. Rinse and dry thoroughly.
- Light burners. Check to make sure they are lit, then close the lid and warm the grill on HI for 15 minutes. Curing of paint and parts will produce an odor only on first lighting.

# Use and Care

## Connecting Your Grill to the Natural Gas Source

**IMPORTANT:** Regulator supplied with grill MUST be utilized for natural gas connection.

1. Coat pipe nipple with gas resistant dope. Screw socket onto gas manifold at gas source (A).

2. Connect unattached end of natural gas hose to socket. Push sleeve back on socket (B) and insert plug until sleeve snaps forward, locking plug into socket.

   When socket and plug are connected, valve in socket opens automatically to permit full gas flow. When coupling is disconnected, valve in socket instantly and positively shuts off flow of gas. Because valve in socket positively shuts off flow of gas, grill can be disconnected from gas source by disconnecting hose from socket. Socket can be left on manifold of gas source if so desired.

With proper assembly, plug cannot be removed without pushing sleeve back. To disconnect, push sleeve back and pull plug out of sleeve (this automatically shuts off gas).

Please Note: Hose and assembly are A.G.A. certified and C.G.A. listed for natural gas, manufactured gas, mixed gas and for liquefied petroleum and for LP Gas-Air mixtures on basis of 0.64 specific gravity for 1000 BTU's per cubic foot of gas at 0.3 in. water column pressure drop. Only ANSI Z21.54 approved hoses should be used with this grill.

The appliance and its individual shut off valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5kPa).

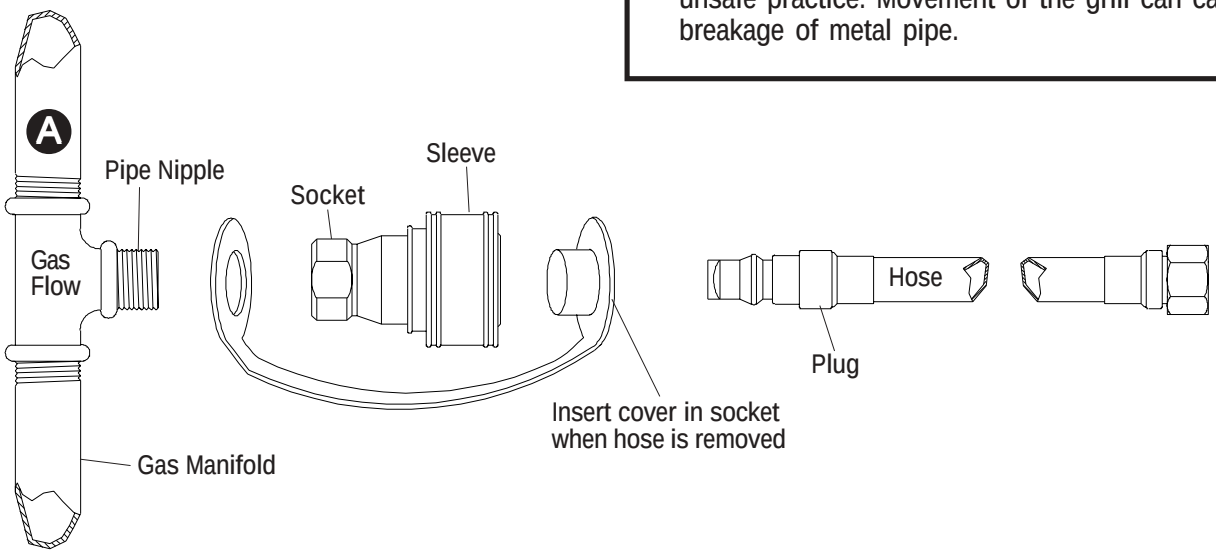
The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa).

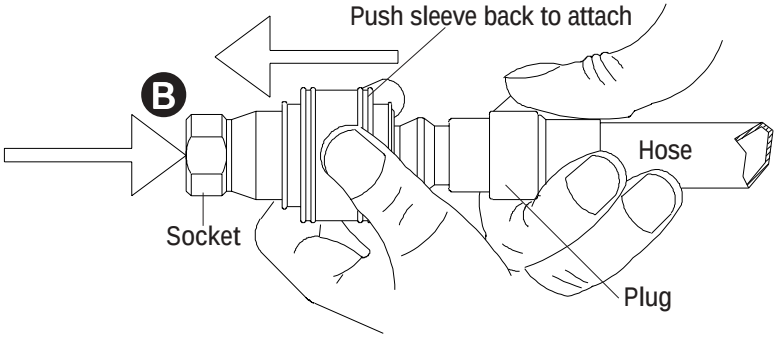
**⚠ WARNING**

- Connection to gas source must be done by a certified plumber.

**⚠ WARNING**

- Do not use hard metal piping of any kind to connect this type of grill to natural gas source. Use ONLY hose specified by Char-Broil. Using hard metal piping or convoluted metal tubing is an unsafe practice. Movement of the grill can cause breakage of metal pipe.



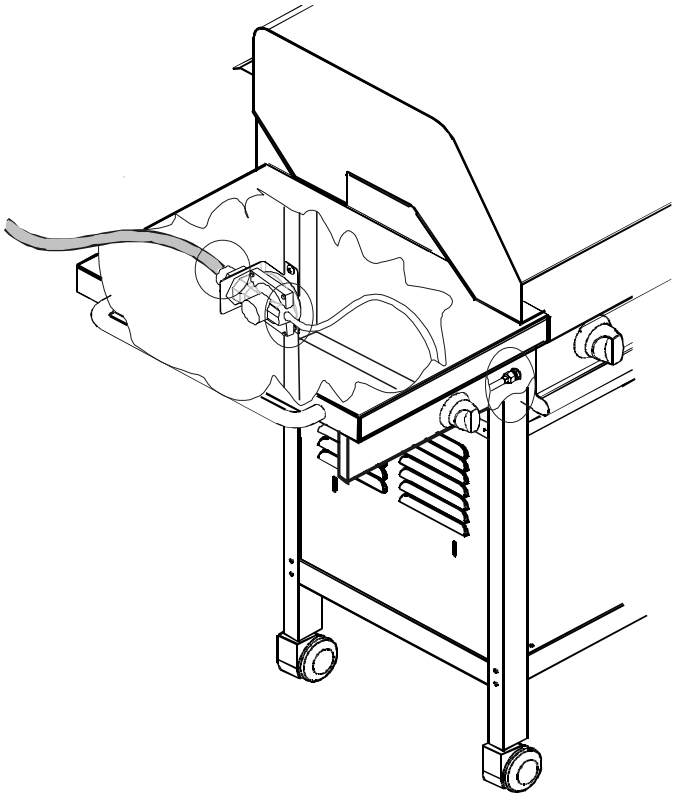



## ⚠ WARNING

- Do not use grill until leak checked.
- If leak is detected at any time, STOP and call the Fire Department.
- If you cannot stop a gas leak, *immediately* turn gas off at gas source and call natural gas supplier or your fire department!

### Leak Testing Valves, Hoses and Regulator

1. Turn all grill control knobs to OFF.
2. Be sure regulator is tightly connected to LP tank.
3. Completely open LP tank valve by turning hand wheel counter clockwise. If you hear a *rushing sound*, turn gas off immediately. There is a major leak at the connection. Correct before proceeding.
4. Brush soapy solution onto following connections:



5. "If growing" bubbles appear, there is a leak. Close LP tank valve immediately and retighten connections. If leaks cannot be stopped "do not try to repair." Call for replacement parts. Order new parts by giving the serial, model number and name of items needed to the Grill Service Center at
   ☎1-800-241-7548 U.S. or 1-800-387-6057 CAN.
6. Always close LP tank valve after performing leak test by turning hand wheel clockwise.

### Safety Tips

- ▲ When grill is not in use, turn off all control knobs and gas source.
- ▲ Never move grill while in operation or still hot.
- ▲ When moving the grill push it forward, do not pull from behind.
- ▲ Use long-handled barbecue utensils to avoid burns and splatters.
- ▲ Do not remove grease receptacle or tray until grill has completely cooled.
- ▲ If you notice grease or other hot material dripping from grill onto valve or regulator turn off gas supply at once. Determine the cause, correct, clean and inspect valve and regulator before continuing. Perform a leak test.
- ▲ The regulator may make a humming or whistling noise during operation. This will not affect safety or use of grill.
- ▲ If you have a grill problem see the *"Troubleshooting Section"*.

## ⚠ WARNING

### For Safe Use Of Your Grill:

- Do not let children operate or play near grill.
- Keep grill area clear and free from materials that burn.
- Do not block holes in bottom or back of grill.
- Check burner flames regularly.
- Use grill only in well-ventilated space. NEVER use in enclosed space such as carport, garage, porch, covered patio, or under a surface that can catch fire.
- Use grill at least 3 ft. from any wall or surface. Maintain 10 ft. clearance to objects that can catch fire or sources of ignition such as pilot lights on water heaters, live electrical appliances, etc.
- Do not use charcoal, briquets or lava rock in this grill.
- Apartment Dwellers:
  Check with management to learn the requirements and fire codes for using a Gas Grill in an apartment. If allowed use outside on the ground floor with a three (3) foot clearance from walls or rails. Do not use on or under balconies made of wood.
- NEVER attempt to light burner with lid closed. A buildup of non-ignited gas inside a closed grill is hazardous.

## ⚠ CAUTION

- Putting out grease fires by closing the lid is not possible. Grills are well ventilated for safety reasons.
- Do not use water on a grease fire. Personal injury may result. If a grease fire develops turn knobs and LP tank off.
- Do not leave grill unattended while preheating or burning off on high. If grill has not been regularly cleaned a grease fire can occur that may damage the product.

### Ignitor Lighting

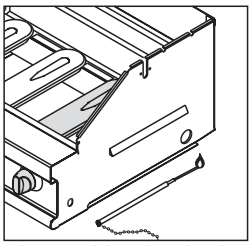
▲ Do not lean over grill while lighting.

1. Open lid during lighting
2. To ignite any burner, turn knob to HI, push and hold ELECTRONIC IGNITOR button for 5 seconds.
3. If ignition does not take place within 5 seconds, turn all burner knobs to OFF, wait 5 minutes, then repeat lighting procedure.
4. If IGNITOR does not work, follow match lighting instructions.

*Match Lighting*

▲ Do not lean over grill while lighting.

1. Open lid during lighting.
2. Place lit match into match lighting stick, then into lighting hole on right side of grill.
3. Push in and turn far right burner knob to HI. Be sure burner lights and stays lit.
4. Light adjacent burners in sequence by pushing knobs in and turning to HI.

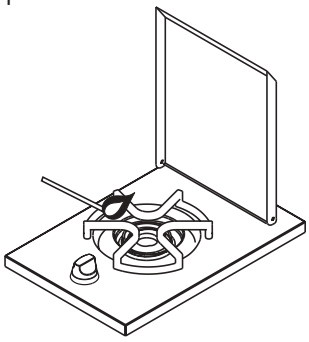


## ⚠ WARNING

- If burner does not light turn knobs to OFF, wait 5 minutes, try again.

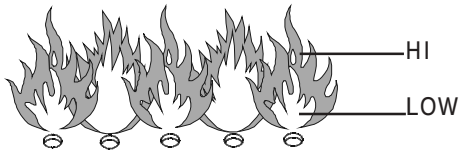
*Match Lighting*

1. To match light SIDEBURNER, open sideburner cover.
2. Place lit match near burner.
3. Push in and turn sideburner knob counter-clockwise. Be sure burner lights and stays lit.



### Burner Flame Check

- Remove grates and flametamers. Light burners, rotate knobs from HI to LOW. You should see a smaller flame in LOW position than seen on HI. Always check flame prior to each use. Perform flame check for sideburner. If only low flame is seen refer to "Sudden drop or low flame" in the *Troubleshooting Section*.




### Turning Grill Off

- Turn all knobs to OFF position. Turn gas OFF at gas source.

### Ignitor Check

- Turn gas off at gas source. Push and hold electronic ignitor button. "Clicks" should be heard and spark seen each time between collector box or burner and electrode. See *"Troubleshooting"* if no click or spark.

### Valve Check

- Important: Make sure gas is OFF at gas source before checking valves. Knobs lock in OFF position. To check valves, first push in knobs and release, knobs should spring back. If knobs don't spring back, replace valve assembly before using grill. Turn knobs to LOW position then turn back to OFF position. Valves should turn smoothly.

### Hose Check

- Before each use, check to see if hoses are cut or worn. Replace damaged hoses before using grill. Use only valve/hose/regulator specified by manufacturer.

### Cleaning The Burner Assembly

Follow these instructions to clean and/or replace parts of burner assembly or if you have trouble igniting grill.

1. Turn gas off at control knobs and Gas source.
2. Remove cooking grates, flametamers, grease tray and grease receptacle.
3. Remove cotter pins from beneath each burner "foot" using a screwdriver or needle nose pliers.
4. Carefully lift each burner up and away from valve openings.

We suggest three ways to clean the burner tubes. Use the one easiest for you.

(A) Bend a stiff wire (a light weight coat hanger works well) into a small hook. Run the hook through each burner tube and burner several times.

(B) Use a narrow bottle brush with a flexible handle (do not use a brass wire brush), run the brush through each burner tube and burner several times.

(C) Wear eye protection: Use an air hose to force air into the burner tube and out the burner ports. Check each port to make sure air comes out each hole.

5. Wire brush entire outer surface of burner to remove food residue and dirt.
6. Clean any blocked ports with a stiff wire such as an open paper clip.
7. Check burner for damage, due to normal wear and corrosion some holes may become enlarged. If any large cracks or holes are found replace burner.

VERY IMPORTANT: Burner tubes must reengage valve openings.

8. Carefully replace burners.
9. Replace cotter pin beneath each burner.
10. Replace grease tray and receptacle, flametamers, and cooking grates.

## General Grill Cleaning

- Do not mistake brown or black accumulation of grease and smoke for paint. Interiors of gas grills are not painted at the factory (and should never be painted). Apply a strong solution of detergent and water or use a grill cleaner with scrub brush to insides of grill lid and bottom. Rinse and allow to completely air dry. Do not apply a caustic grill/oven cleaner to painted surfaces.
- Plastic parts: wash with warm soapy water and wipe dry. ▲ Do not use citrisol, abrasive cleaners, degreasers or a concentrated grill cleaner on plastic parts. Damage to and failure of parts can result.

**⚠ CAUTION**

Clean burners prior to use after storing, at the beginning of grilling season or a period of one month not being used. Spiders and insects like to build nests in burner tubes (especially during colder months). These nests can cause fires in burner tubes or under grill.

- Porcelain surfaces: because of glass-like composition, most residue can be wiped away with baking soda/water solution or specially formulated cleaner. Use nonabrasive scouring powder for stubborn stains.
- Painted surfaces: Wash with mild detergent or nonabrasive cleaner and warm soapy water, wipe dry with a soft nonabrasive cloth.
- Stainless steel surfaces: To maintain your grill's high-quality appearance, wash with mild detergent and warm soapy water, wipe dry with a soft cloth after each use. Baked-on grease deposits may require the use of an abrasive plastic cleaning pad.

## Storing Your Grill

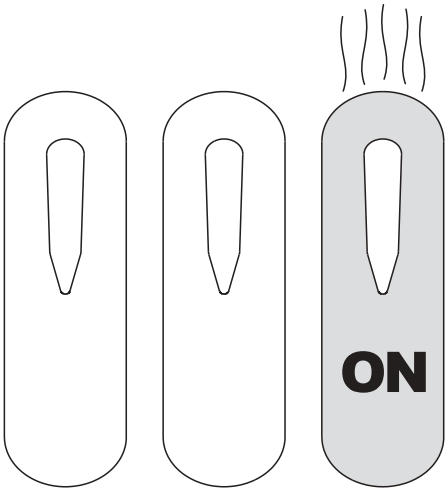
- Clean cooking grates
- Store in dry location.
- Cover grill if stored outdoors. Choose from a variety of grill covers offered by Char-Broil.
- Store grill indoors ONLY if gas source is disconnected.
- When removing grill from storage follow *"Cleaning the Burner Assembly"* instructions before starting grill.

## Indirect Cooking

Poultry and large cuts of meat cook slowly to perfection on the grill by indirect heat. The heat from selected burners circulates gently throughout the grill, cooking meat or poultry without the touch of a direct flame. This method greatly reduces flare-ups when cooking extra fatty cuts because there is no direct flame to ignite the fats and juices that drip during cooking.

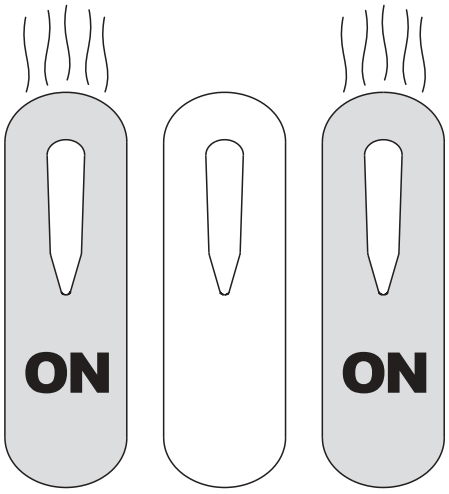
## Indirect Cooking Instructions

- Always cook with the lid closed.
- Due to weather conditions, cooking times may vary. During cold and windy conditions the temperature setting may need to be increased to insure sufficient cooking temperatures.




1 Burner Cooking

Cook with direct or indirect heat.
Best for smaller meals or foods.
Consumes less fuel.




2 Burner Cooking

Great indirect cooking on low.
Produces slow, even heating.
Ideal for slow roasting and baking.

## Food Safety

- Food safety is a very important part of enjoying the outdoor cooking experience. To keep food safe from harmful bacteria, follow these four basic steps:

Clean: Wash hands, utensils, and surfaces with hot soapy water before and after handling raw meat and poultry.

Separate: Separate raw meats and poultry from ready-to-eat foods to avoid cross contamination. Use a clean platter and utensils when removing cooked foods.

Cook: Cook meat and poultry thoroughly to kill bacteria. Use a thermometer to ensure proper internal food temperatures.

Chill: Refrigerate prepared foods and leftovers promptly.

## How To Tell If Meat Is Grilled Thoroughly

- Meat and poultry cooked on a grill often browns very fast on the outside. Use a meat thermometer to be sure food has reached a safe internal temperature, and cut into food to check for visual signs of doneness.
- Whole poultry should reach $180^0$ F; breasts, $170^0$ F. Juices should run clear and flesh should not be pink.
- Hamburgers made of any ground meat or poultry should reach $160^0$ F, and be brown in the middle with no pink juices. Beef, veal and lamb steaks, roasts and chops can be cooked to $145^0$ F. All cuts of pork should reach $160^0$ F.
- NEVER partially grill meat or poultry and finish cooking later. Cook food completely to destroy harmful bacteria.
- When reheating takeout foods or fully cooked meats like hot dogs, grill to $165^0$ F, or until steaming hot.

## Troubleshooting

| Problem | Possible Cause | Prevention/Cure |
|---|---|---|
| Burner will not light using ignitor. | Wires and/or electrode covered with cooking residue. | Clean wires and/or electrode with rubbing alcohol and clean swab. |
| | Electrode cracked or broken "sparks at crack" | Replace electrode(s). |
| | Electrode tip not in proper position | Main Burners: Tip of electrode should be pointing toward tip of collector box. The distance should be 1/8" to 1/4", adjust if necessary. |
| | | Sideburner: Tip of electrode should be pointing toward gas port opening on burner. The distance should be 1/8" to 3/16", adjust if necessary. |
| | Wires are loose or disconnected. | Reconnect wires or replace electrode/wire assembly. |
| | Wire is shorting (sparking) between ignitor and electrode. | Replace ignitor wire/electrode assembly. |
| | Dead battery. | Replace with a new AA battery. |
| Burners will not match light. | No gas flow. | Turn gas on at source. |
| | Obstruction of gas flow. | Clear burner tubes. |
| | Disengagement of burner to valve. | Reengage burner and valve. |
| Flames blow out. | High or gusting winds. | Turn front of grill to face wind or increase flame height. |
| Flare-up. | Grease buildup. | Clean grill. |
| | Excessive fat in meat. | Trim fat from meat before grilling. |
| | Excessive cooking temperature. | Adjust (lower) temperature accordingly or use indirect cooking. |
| Persistent grease fire. | Grease trapped by food buildup around burner system. | Turn knobs to OFF. Turn gas off at gas source. Leave lid in position and let fire burn out. *After grill cools, remove and clean all parts.* |
| Flashback... (fire in burner tubes) | Burner and/or burner tubes are blocked. | Clean burner and/or burner tubes. |

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